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## NOTICE OF ALLOWANCE AND FEE(S) DUE

8791 7590 03/10/2011  
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP  
1279 OAKMEAD PARKWAY  
SUNNYVALE, CA 94085-4040

EXAMINER

BASEHOAR, ADAM L

ART UNIT

PAPER NUMBER

2178

DATE MAILED: 03/10/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/669,594

09/26/2000

Prasad Raju

004426.P001

5001

TITLE OF INVENTION: METHOD APPARATUS, AND SYSTEM FOR AUTOMATED CREATION AND MAINTENANCE OF PROGRAMS TO  
PROCESS INTERNET FORM RELATED SUBMISSIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional

YES

\$755

\$0

\$0

\$755

06/10/2011

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
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P.O. Box 1450  
Alexandria, Virginia 22313-1450  
or Fax (571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

8791 7590 03/10/2011  
**BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP**  
1279 OAKMEAD PARKWAY  
SUNNYVALE, CA 94085-4040

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/669,594 09/26/2000 Prasad Raju 004426.P001 5001

**TITLE OF INVENTION: METHOD APPARATUS, AND SYSTEM FOR AUTOMATED CREATION AND MAINTENANCE OF PROGRAMS TO PROCESS INTERNET FORM RELATED SUBMISSIONS**

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$0	\$755	06/10/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
BASEHOAR, ADAM L	2178	715-221000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_  
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_  
3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_ Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/669,594	09/26/2000	Prasad Raje	004426.P001	5001

8791 7590 03/10/2011  
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP  
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SUNNYVALE, CA 94085-4040

EXAMINER
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BASEHOAR, ADAM L

ART UNIT	PAPER NUMBER
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2178

DATE MAILED: 03/10/2011

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 266 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 266 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Privacy Act Statement

**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/669,594	RAJE, PRASAD	
	<b>Examiner</b>	<b>Art Unit</b>	
	ADAM L. BASEHOAR	2178	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Request for Continued Examination (RCE) filed 06/15/10.
2. ☒ The allowed claim(s) is/are 126-129, 131-140, 142, 144-154 and 168.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date <u>06/15/10</u></li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date ____.</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other ____.</li> </ol> |
|---|--|

/Adam L Basehoar/  
Primary Examiner, Art Unit 2178

Art Unit: 2178

### **EXAMINER'S COMMENT AND AMENDMENT**

1. This action is responsive to communications: The Request for Continued Examination (RCE) filed 06/15/10.
2. Claim 168 has been added as necessitated by the RCE.
3. Claims 126, 131, 132, 133, 136, 137, 142, and 168 have been amended by the Examiner, which is discussed below in the Examiner's Amendment section.
4. Claims 126-129, 131-140, 142, 144-154, and 168 are allowed as necessitated by the RCE and in view of the Examiner's Amendment.

### **Information Disclosure Statement**

5. The information disclosure statement (IDS) submitted on 06/15/10 has been considered by the examiner.

### **EXAMINER'S AMENDMENT**

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ryan W. Elliott on 02/25/11.

**The Application has been amended as follows:**

**SPECIFICATION:**

Please change the title of the invention to -- AUTOMATED CREATION AND MAINTAINENCE OF PROGRAMS TO PROCESS INTERNET FORM RELATED SUBMISSIONS -- This includes replacing the title of the invention on lines 1 and 2 of the first page of the Specification with the above new title.

On Page 1 of the Specification, please replace the first paragraph under the BACKGROUND OF THE INVENTION with the following paragraph:

Hyper Text Markup Language (HTML) is a popular authoring language used to create documents on the World Wide Web (WWW). HTML forms are in widespread use on the Internet in order to receive input from users that visit a web site. HTML forms elements are a subset of the HTML specification (see for example [HTTP://www.w3.org/MarkUp/](http://www.w3.org/MarkUp/)). The complete specification for HTML forms is not recited here, but is incorporated by reference.

Please replace the paragraph that spans pages 2 (Starts: Line 21) and 3 (Finishes: Line 7) of the Specification with the following paragraph:

When an HTML form is submitted (e.g., by the user clicking on a <input type=submit> element or by causing the same effect as the pressing of a submit button using scripting language like Javascript or others), a Uniform Resource Locator (URL) on a HTTP server is accessed. The input field values in the HTML form are passed to the server using either a "GET" or "POST" method of passing these variables. The HTTP specification (~~HTTP://www.w3.or~~ [Protocols/rfc2616/rfc2616.txt](http://www.w3.org/Protocols/rfc2616/rfc2616.txt)) and the Common Gateway

Art Unit: 2178

Interface (CGI) specification (~~HTTP://web.golux.com/coar/CGI/~~) describe the manner in which the variables are delivered to the web server and then to the program that is executed as a result. In the example in Figure 1, the method is POST and the URL that is accessed is HTTP://www.remoteserver.com/form.cgi.

### **CLAIMS:**

Claim 126 (Currently Amended) A computer-implemented method comprising:

receiving, through a network, a form authored by a form authoring tool and containing one or more input fields;

parsing, independently of the form authoring tool, the received form to identify the input fields contained in the received form;

providing, independently of the form authoring tool, a graphical user interface to enable selection and configuration of one or more actions to be carried out in response to a subsequent specific submission of the form to a server by a third party, wherein the graphical user interface includes the identified input fields, wherein the selection of the one or more actions is from a group of two or more types of actions, and wherein the configuration of the one or more actions allows for the customization of the behavior of the selected one or more actions and allows for the behavior of the configured actions to be dependent upon the identified input fields or the data input during the specific submission of the form to the server;

automatically generating, independently of the form authoring tool, program code to carry out the one or more selected and configured actions, wherein the program code is external to the form and independent of the form authoring tool;

receiving the specific submission of the form from the third party at the server;



Art Unit: 2178

automatically determining whether the generated program code is consistent with the specific submission of the form; and

executing the program code on the server in response to receipt of the specific submission of the form from the third party to carry out the one or more selected and configured actions.

Claim 131 (Currently Amended) The method of claim 126, further comprising:

~~automatically determining whether the generated program code is consistent with the form; and~~  
generating an alert if the generated program code is not consistent with the specific submission of the form.

Claim 132 (Currently Amended) A server comprising:

a communications device connected to a network to receive a form from a client coupled to the network, the form authored by a form authoring tool and containing one or more input fields;

a memory coupled to the communications device to store the received form; and

a processor coupled to the memory, wherein the memory stores instructions that, when executed by the processor, provide, independently of the form authoring tool, the functionality of

a parser to parse the received form to identify the input fields contained in the received form;

Art Unit: 2178

a graphical user interface generator to create a graphical user interface including the input fields identified by the ~~parser-module~~, and to provide the graphical user interface using the communications device to enable the selection and configuration of one or more actions from a group of two or more types of actions, the one or more actions to be carried out upon subsequent submission of a specific instance of the form to the server by a third party, wherein the specific submission of the form to the server from the third party includes data added by the third party into the input fields, wherein the configuration of the one or more actions allows for the customization of the behavior of the selected one or more actions, and wherein the configured actions are dependent upon the identified input fields or the data input during the specific submission of the form to the server;

a code generator to automatically generate program code to carry out the one or more selected and configured actions, wherein the program code is external to the form;

a consistency module to automatically determine whether the generated program code is consistent with the specific submission of the form; and

a controller to execute the program code on received data from the specific submission of the form.

Claim 133 (Currently Amended) The server of claim 132, ~~further comprising a processor,~~ wherein the ~~parser-module~~, the ~~configurer-module~~ graphical user interface generator, and the code generator-~~module~~ are all implemented using the processor.

Art Unit: 2178

Claim 136 (Currently Amended) The server of claim 132, ~~further comprising a consistency module to automatically determine whether the generated program code is consistent with the form,~~ wherein the consistency module generates an alert if the program code is not consistent with the specific submission of the form.

Claim 137 (Currently Amended) A non-transitory machine-readable storage medium containing data representing instructions that, when executed by a processor, cause the processor to perform operations comprising:

receiving, through a network, a form authored by a form authoring tool and containing one or more input fields;

parsing, independently of the form authoring tool, the received form to identify the input fields contained in the received form;

providing, independently of the form authoring tool, a graphical user interface to enable selection and configuration of one or more actions to be carried out in response to a subsequent specific submission of the form to a server by a third party, wherein the graphical user interface includes the identified input fields, wherein the selection of the one or more actions is from a group of two or more types of actions, wherein the configuration of the one or more actions allows for the customization of the behavior of the selected one or more actions and allows for the behavior of the configured actions to be dependent upon the identified input fields or the data input during the specific submission of the form to the server;

Art Unit: 2178

automatically generating, independently of the form authoring tool, program code to carry out the one or more selected and configured actions, wherein the program code is external to the form and independent of the form authoring tool;

receiving the specific submission of the form at the server from the third party;

automatically determining whether the generated program code is consistent with the specific submission of the form; and

executing the program code on the server in response to receipt of the specific submission of the form from the third party to carry out the one or more selected and configured actions.

Claim 142 (Currently Amended) The machine-readable medium of claim 137, wherein the instructions further cause the processor to perform operations comprising ~~automatically determining whether the generated program code is consistent with the form;~~ and generating an alert if the generated program code is not consistent with the specific submission of the form.

Claims 168 (Currently Amended) A computer-implemented method comprising:

receiving, through a network, a form authored by a form authoring tool and containing one or more input fields;

Art Unit: 2178

parsing, independently of the form authoring tool, the received form to identify the input fields contained in the received form;

providing, independently of the form authoring tool, a graphical user interface to enable selection and configuration of one or more actions to be carried out in response to a subsequent specific submission of the form to a server by a third party, wherein the graphical user interface includes the identified input fields, wherein the selection of the one or more actions is from a group of two or more types of actions, wherein the configuration of the one or more actions allows for the customization of the behavior of the selected one or more actions and allows for the behavior of the configured actions to be dependent upon the identified input fields or the data input during the specific submission of the form to the server;

automatically generating, independently of the form authoring tool, program code to carry out the one or more selected and configured actions, wherein the program code is external to the form and independent of the form authoring tool;

receiving the specific submission of the form from the third party at the server; and  
automatically determining whether the generated program code is consistent with the  
specific submission of the form.

### **Conclusion**

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Please note the additionally cited references listed on the accompanying PTO-892 form.

Art Unit: 2178

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ADAM L. BASEHOAR whose telephone number is (571)272-4121. The examiner can normally be reached on M-F: 8:00am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Adam L Basehoar/  
Primary Examiner, Art Unit 2178